

Middle School Initiative

**PART I
COVER SHEET**

CAP 3 SEMESTER 1 WEEK 11

COURSE: Dr. Robert H. Goddard Aerospace Education, Achievement 7

LESSON TITLE: Unmanned Spacecraft

LENGTH OF LESSON: 50 Minutes

METHOD: Lecture - Performance

REFERENCE(S):

1. *Aerospace Dimensions*, Module 6, Chapter 1, 2000
2. Study Guide, 2000
3. Leader Guide, 2000
4. Resource Guide, 2000

AUDIO/VISUAL AIDS/HANDOUTS/ACTIVITY MATERIAL(S): As Needed

COGNITIVE OBJECTIVE: To learn the characteristics of unmanned spacecraft.

COGNITIVE SAMPLES OF BEHAVIOR: Upon completion of this chapter, the cadet should be able to:

1. Define a satellite.
2. Describe an orbit.
3. Define apogee and perigee.
4. Identify *Sputnik*.
5. Define a space probe.
6. Describe the related parts that make up a satellite system.

AFFECTIVE OBJECTIVE: N/A

AFFECTIVE SAMPLES OF BEHAVIOR: N/A

Middle School Initiative**PART II
TEACHING PLAN****Introduction**

ATTENTION: Today, you will begin your Aerospace Education studies in Module 6. We will start with *Aerospace Dimensions*, Module 6, Chapter 1 - Unmanned Spacecraft.

MOTIVATION: How many different types of unmanned spacecraft are there? Can you name two? These are some of the questions that will be studied in this chapter.

OVERVIEW: During this period, your aerospace studies will be Unmanned Spacecraft.

Body

NOTE: The instructor should use the lesson plan in the Leader Guide, Pages 37-39. For today's lesson, the cadets should use the Study Guide, Pages 28-29. A materials list is located in the Resource Guide, Page 54.

Conclusion

SUMMARY: We have studied the material in *Aerospace Dimensions*, Module 6, Chapter 1.

REMOTIVATION: Now you know how to identify an unmanned spacecraft and their purpose.

CLOSURE: Next week, we will continue our AE studies with Module 6, Chapter 2 - Manned Spacecraft. **Any questions? See you next week!**

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**PART III
LESSON REVIEW**

LESSON OBJECTIVE(S): Today, we learned how to:

1. Define a satellite.
2. Describe an orbit.
3. Define apogee and perigee.
4. Identify *Sputnik*.
5. Define a space probe.
6. Describe the related parts that make up a satellite system.

LESSON QUESTIONS: Contained in *Aerospace Dimensions*, Module 6, Chapter 1.